

DC-4 POWER SUPPLY

I. GENERAL DESCRIPTION

The R. L. Drake Model DC-4 Power Supply is a self-contained power converter which transforms 12VDC to the voltage necessary to operate our TR-4, T-4XB or T-4B. A receptacle supplying 115 VAC permits operation of the R-4B/T-4XB or T-4B combination.

II. SPECIFICATIONS

INPUT: 12VDC

OUTPUT: 650 VDC at 300 ma average (500 ma peak)
250 VDC at 175 ma
-45 to -65 VDC adjustable bias into 33 K ohms
115 VAC at 600 ma for receiver operation
*(115 VAC at 1.3 A if used alone)

FREQUENCY: Approximately 330 Hertz square wave

SIZE: $8\frac{1}{2}$ L x 4-1/4" W x $3\frac{1}{2}$ " H

WEIGHT: 7 pounds

* An On-Off switch to short Pins 1 and 2 of the S-312-CCE female connector should be used to provide 115 VAC output for applications other than an R-4B Receiver. A 'Tube Saver' such as GC Electronics No. 25-898 may be required for loads other than an R-4B. This is due to the extremely low cold resistance of some loads such as incandescent lamps, some TV sets, etc.

III. INSTALLATION

The DC-4 is supplied for use in cars with negative ground system.

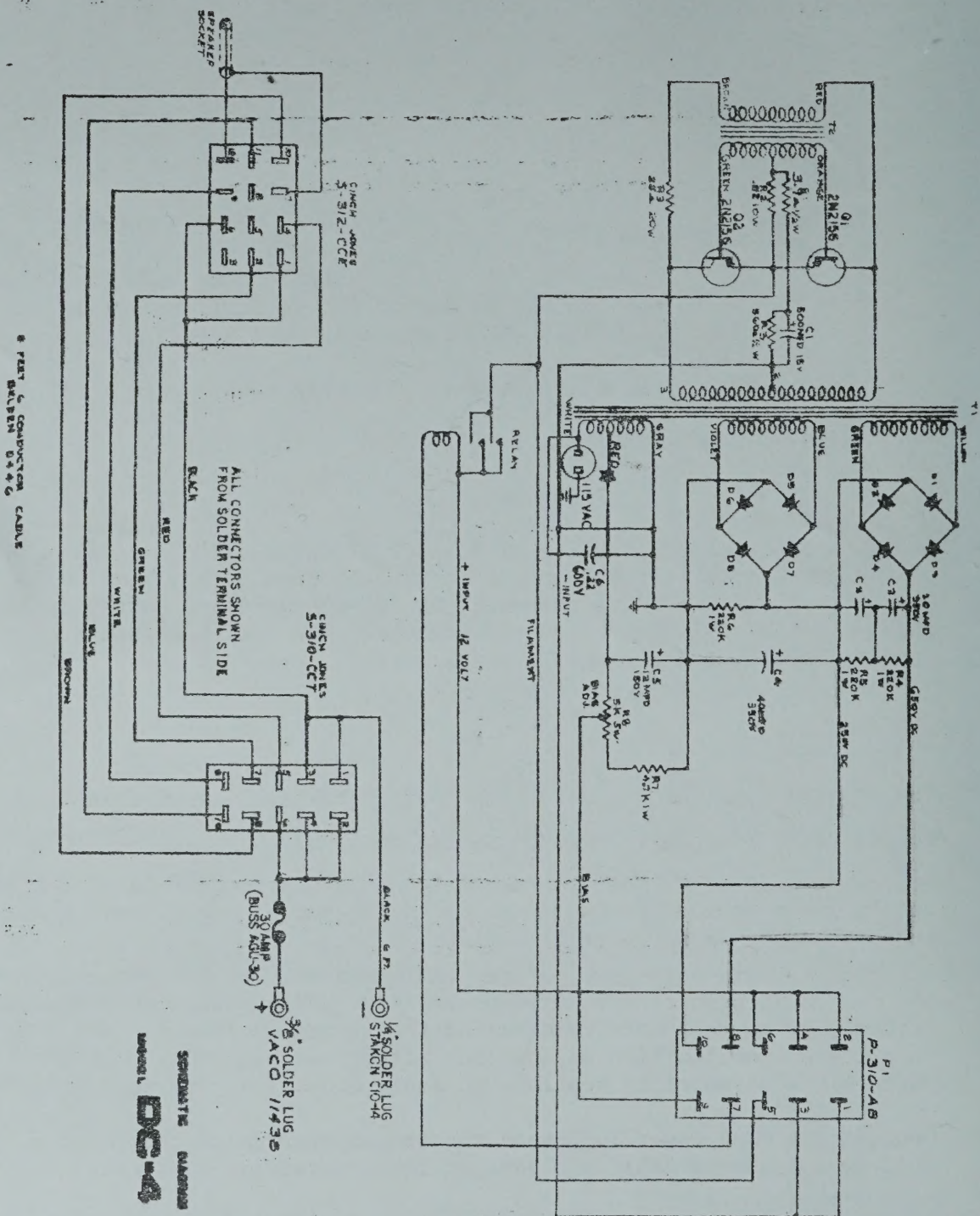
DO NOT USE WITH POSITIVE GROUND SYSTEMS OR SERIOUS DAMAGE MAY RESULT.

We recommend that the DC-4 be mounted on the passenger side of the fire wall. It should not be placed in the trunk or in the engine compartment unless it is protected from water and engine heat.

Attach the short black wire of the cable assembly to the nearest convenient ground and run the red/white wire through the fire wall to the ungrounded terminal of the battery, or to the 'hot' terminal of the starter solenoid. Mount the fuse holder in a convenient location as near the battery as possible. Cut the black and red/white wires as short as possible to avoid unnecessary voltage drop.

Connect the DC-4 Power Supply to the transmitter using the cable assembly supplied. Coil up any excess cable and tape it in a convenient location.

Adjust the BIAS ADJ control, located on the end of the unit, as described in the transmitter instructions under "Tuning Procedure."



DC-4 POWER SUPPLY SPARE PARTS LIST

QTY.	SYMBOL	ITEM	PRICE EACH
1	---	CABLE ASSY., complete with connectors	\$ 13.50
1	C6	CAPACITOR, Electrolytic, 12 ufd @ 150 V	.85
4	C2,3,4,5	" 20 ufd @ 350 V	1.25
1	C1	" 500 ufd @ 15 V	1.50
1	---	" .22 ufd @ 600 V	.66
1	P1	CONNECTOR, 10 pin chassis mounting	.70
1	---	" 10 pin, cable	1.00
1	---	" 12 pin, cable	1.50
1	R8	CONTROL, 5000 ohm, bias adj.	1.20
9	D1,2,3,4,5 5,7,8,9	DIODE, Rectifier HC71CA or equiv.	.55
1	---	FUSE holder	.75
1	---	" AGU-30	.18
1	---	RELAY	4.18
---	---	RESISTORS - 1 watt types	.20
		5 watt types	.30
		10 watt types	.60
		25 watt types	.80
1	T1	TRANSFORMER, power	18.00
1	T2	" toroid	10.00
2	Q1&Q2	TRANSISTORS, 2N2156	4.10

